EPS–16 PLUS Software Version 1.1 Update

The following revisions have been made to the EPS–16 PLUS software as of Version 1.1 which change or supplement what is written in the EPS–16 PLUS Musician's Manual.

Multi-Track Record

Multi-Track Recording is a new way of recording MIDI tracks with the EPS–16 PLUS. This feature allows you to transfer entire sequences from an external sequencer in a single pass. A new setting has been added to the RECORD SOURCE parameter on the EDIT/Seq•Song page to enable this feature:

Record Source

- MULTI — this setting allows you to record data onto multiple EPS–16 PLUS tracks simultaneously, but only from MIDI. This is most useful for recording tracks sent from external sequencers or played from guitar controllers.

Note: The EPS–16 PLUS must be set to receive data from MIDI in Multi or Mono B modes (MIDI IN MODE=MULTI or MONO B on the EDIT/System•MIDI page) in order for this feature to work correctly).

Using Multi-Track Record

When RECORD SOURCE=MULTI, the EPS–16 PLUS will record on *all* tracks which have an instrument loaded. Each track should be set to a different MULTI–IN MIDI CHAN on the EDIT/Track page. If two tracks have the same MULTI–IN MIDI CHAN, only the lower numbered track will be recorded.

- Connect a MIDI cable from the MIDI Out of the external sequencer to the MIDI In of the EPS–16 PLUS.
- Set the MIDI IN MODE to either MONO B (for guitar controllers sending on individual strings) or MULTI (for transferring data from another sequencer) on the EDIT/System•MIDI page of the EPS–16 PLUS.
- Disable count-off on *both* systems to avoid problems.
- Disable sequence looping on the external sequencer (LOOP=OFF).
- Create a new sequence with the correct time signature.
- Set the individual MULTI-IN MIDI CHANNEL (found on the EDIT/Track page) for each track, matching MIDI channels with those that will be sent from the controller.

- Make sure all the tracks you want to record on have their MIDI STATUS set to BOTH, LOCAL, or MIDI.
- On the EDIT/Seq•Song page, set the RECORD SOURCE parameter to MULTI.
- If recording from an external sequencer, set the EPS–16 PLUS to sync to MIDI clocks. On the EDIT/Seq•Song page, select CLOCK SOURCE=MIDI. Set this parameter to INT if recording "live" from a MIDI guitar or other multi-channel controller.

With these parameters set, pressing the ***Record*** button places the EPS–16 PLUS into Record Waiting mode (the display will flash WAITING. . .). If external sync is used (CLOCK SOURCE=MIDI), recording begins with the first clock received after the MIDI Start command. If internal sync is selected (CLOCK SOURCE=INT), then recording begins when the first note is received.

Once the ***Stop*** button has been pressed, the EPS–16 PLUS displays the ###BARS-KEEP TRACK? message. Pressing the ***Yes*** button will save the data. The "EDITING DATA..." message is displayed while the sequencer is processing the data you have recorded. The time required for processing depends on how much data and how many tracks were recorded, and it can take several minutes. You can either re-record or erase the tracks (or the entire sequence or song) if you do not wish to keep the results after recording. Multi-Track Record always operates in Replace mode, regardless of the setting of the REC-MODE switch on the Seq Control page. However, while tracks are being rerecorded in MULTI, both the original and new tracks can be heard. This can be confusing, but only the new tracks are being recorded, and when played back the sequence will sound fine.

It is possible to record multi-track sequences from the keyboard, but only if you set track status to MIDI for each of the active (primary and layered) tracks and then set up a MIDI loop (by connecting MIDI Out to MIDI In). This procedure is a bit tricky, and should only be attempted if you have a good understanding of the system.

Copy SCSI Drive

A new command on the COMMAND/System•MIDI page enables you to copy the data from one SCSI drive to another of the same capacity (they must have exactly the same capacity for the process to work) or copy data from one cartridge of a removable SCSI drive to another cartridge. This command does *not* de-fragment the files as it copies them from the source drive to the destination drive. It merely copies the data sector by sector.

SCSI Drive Hook-Up

When using the COPY SCSI DRIVE command to copy data between two drives of the same size, connect a SCSI cable between one port of one drive to the SCSI connector on the rear of the EPS–16 PLUS. Then, run a second SCSI cable from the first drive's remaining SCSI port to a port on the second drive. The order of the drives does not matter. However, each drive must have a different SCSI ID number in order for the EPS–16 PLUS to differentiate between the source and destination drives. Also, it is time to stress again that the two drives must be the same size (in memory capacity) for the process to work properly. The easiest way to ensure this is to use the same model by the same manufacturer for both drives. However, several manufacturers use the same drive mechanism in their drives, which will also work. Call the drive manufacturer to get complete details on your specific drive(s).

For copying data between two cartridges of a removable drive, connect a SCSI cable between one of the SCSI ports on the drive and the SCSI connector on the EPS–16 PLUS.

Using the Copy SCSI Drive Command

The following procedure is the basic method for copying data between two SCSI drives of the same size or two cartridges of a removable drive.

- With the drive(s) connected as stated above, press ***Command***, followed by ***System•MIDI***. This places you on the COMMAND/System•MIDI page.
- Use the data entry controls to scroll to the COPY SCSI DRIVE command. Press ***Enter***.
- The display reads FROM DRIVE=SCSI #. Use the ***Up/Down Arrow*** buttons to set the SCSI ID number to that of the source drive (the drive which contains the data you wish to copy). For more information on SCSI ID number, refer to the SCSI Operation manual which you received when SCSI was installed on your EPS–16 PLUS. Press ***Enter***.
- The display now reads TO DRIVE=SCSI #. Use the ***Up/Down Arrow*** buttons to set the SCSI ID number to that of the destination drive (the drive to which you wish to copy the data). If copying between two cartridges of a removable drive, set the TO DRIVE and FROM DRIVE parameters to the same number. Press ***Enter***.
- If the destination drive needs to be formatted, the EPS–16 PLUS will display the message FORMAT SCSI DRIVE. Pressing ***Enter*** will cause the drive to be formatted.

Immediately afterward, the EPS–16 PLUS begins copying the data from the source drive to the destination drive.

Note: When using a removable drive, the EPS–16 PLUS will issue prompts for inserting the source and destination disks. These refer to the separate cartridges, and are switched in the same manner as floppy disks in the COPY FLOPPY command. It is also very important to let the drive "spin-up" each time you switch between Source and Destination cartridges *before* hitting the ***Enter*** button to continue.

Warning Messages

Warnings are displayed for one second and indicate either successful completion or non-fatal error conditions encountered during a disk operation.

- DISK COMMAND COMPLETED — indicates that the disk operation was completed successfully.
- NOT REMOVABLE DRIVE — appears when both the FROM DRIVE and TO DRIVE parameters are set to the same SCSI ID number, but the drive(s) is not a removable.
- DIFFERENT SIZE DRIVES — indicates that the drives being used are not the same size and the copying cannot take place.

Shuffling Data

A new prompt has been added that will sometimes appear in the display when entering record. When record mode is entered on the EPS–16 PLUS, all the available memory is grouped together and becomes available for sequencer use. If any instruments have been loaded, deleted, or edited since last entering record, the EPS–16 PLUS has to "shuffle" data in order to group all of the available memory together for sequencer use. When this occurs, there will be a slight delay *before* going into record, and you'll see the following:

This message will appear only briefly, then recording (or countoff) will begin. You may have noticed a momentary pause before entering record in the past. This new message does not represent a change in how the EPS–16 PLUS gathers the free memory for sequencer use. The data shuffling has always occurred, only without the prompt being issued. The SHUFFLING DATA prompt has been added for informational purposes.